



Attachment # 1

Customer number 37129
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Application number 10/711,333

Date: December 15, 2004

Amendment to the Patent application number **10/711,333**
"Drilling Cutting Analyzer System and methods of applications."

What is claimed is:

Claim 1 is an apparatus for measuring the natural gamma radiation in discrete media of drilling cuttings consists of:
Claim 2 is the means of obtaining signal that is discriminating the natural gamma radiation of different formations obtained at the surface from unconsolidated material and drilling cuttings.
Claim 3 is the apparatus for measuring the absorption properties of gamma radiation in discrete media of drilling cuttings consist of:
Claim 4 two sensors. First is the gamma ray **15** and beta ray **16** receivers attached together on one side.
Claim 5 is the apparatus for measuring the **Induction Resistivity** properties of formation in discrete media of drilling cuttings.
Claim 6 is the apparatus for measuring the Sonic velocities and penetration properties of formation in discrete media of drilling cuttings.
Claim 7 is the parameter to correlate the quantity of sample passing at this time through the auger. The relative deflections depending on quantity will be explained.
Claim 8 is the apparatus for Fluorescence brightness measurement by injection of dissolvent **55**.
Claim 9 is the process of constantly injecting small dose of dissolvent in to the cuttings flow.
Claim 10 is sensor **54**, which measures the amplitude and frequency of light emission produced.

Total claims remained – **10**.

Regards,

Konstandinos Zamfes